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Updated
9/2/04

DATE: Thursday, September 02, 2004

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<i>DB=USPT; PLUR=YES; OP=AND</i>			
<input type="checkbox"/>	L1	nassif.in. or tinsley.in. or achtman.in. or vinals.in. or merker.in.	819
<input type="checkbox"/>	L2	L1 and neisser\$	5
<input type="checkbox"/>	L3	L1 and lactamica	0
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<input type="checkbox"/>	L4	nassif.in. or tinsley.in. or achtman.in. or vinals.in. or merker.in.	1933
<input type="checkbox"/>	L5	l4 and lactamica	3

END OF SEARCH HISTORY

WEST Search History

DATE: Thursday, September 02, 2004

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DB=USPT; PLUR=YES; OP=AND

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<input type="checkbox"/>	L2	L1 and neisser\$	5
<input type="checkbox"/>	L3	L1 and lactamica	0

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[Generate Collection](#)[Print](#)**Search Results - Record(s) 1 through 5 of 5 returned.**

-
- ☐ 1. [6706269](#). 12 May 00; 16 Mar 04. *Moraxella catarrhalis* PILQ proteins. Ruelle; Jean-Louis, et al. 424/190.1; 424/184.1 424/192.1 424/234.1 424/251.1 514/2 530/300 530/350 530/825. A61K039/02 A61K039/00 A61K038/00 C07K001/00.
-
- ☐ 2. [6277382](#). 19 Aug 97; 21 Aug 01. Hemoglobin receptors from *neisseriae*. Stojiljkovic; Igor, et al. 424/249.1; 424/185.1 424/190.1 424/250.1 435/69.1 530/350 536/23.1 536/23.7. A61K039/095.
-
- ☐ 3. [6123942](#). 15 Dec 97; 26 Sep 00. Bacterial hemoglobin receptor gene. Stojiljkovic; Igor, et al. 424/190.1; 424/184.1 424/250.1 530/350 530/825. A61K039/02 A61K039/095 A61K039/00 C07K001/00.
-
- ☐ 4. [6121037](#). 02 Oct 95; 19 Sep 00. Bacterial hemoglobin receptor genes. Stojiljkovic; Igor, et al. 435/252.3; 435/320.1 536/23.7 536/24.32. C12N001/21 C12N015/74 C12N015/31.
-
- ☐ 5. [5698438](#). 18 Oct 94; 16 Dec 97. Bacterial hemoglobin receptor gene. Stojiljkovic; Igor, et al. 435/252.3; 435/320.1 536/23.7. C12N001/21 C12N015/74 C12N015/31.
-

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Terms	Documents
L1 and neisser\$	5

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[Generate Collection](#)[Print](#)**Search Results - Record(s) 1 through 3 of 3 returned.**

☐ 1. [20020164603](#). 14 Aug 01. 07 Nov 02. DNAs and proteins or peptides specific to bacteria of the species *Neisseria meningitidis*, processes for obtaining them and their biological uses. [Nassif](#), Xavier, et al. 435/6; 435/183 435/252.3 435/320.1 435/69.3 536/23.7 C12Q001/68 C07H021/04 C12N009/00 C12N015/74 C12P021/02 C12N001/21.

☐ 2. [WO009802547A2](#). 11 Jul 97. 22 Jan 98. DNA AND SPECIFIC PROTEINS OR PEPTIDES OF THE *NEISSERIA MENINGITIDIS* SPECIES BACTERIA, METHOD FOR OBTAINING THEM AND THEIR BIOLOGICAL APPLICATIONS. [NASSIF](#), XAVIER, et al. C12N015/31; C07K014/22 C07K016/12 A61K039/095 C12Q001/68 G01N033/53.

☐ 3. [WO.9802547A](#). Genes present in *Neisseria meningitidis* but not other *Neisseria* species - and related host cells, RNA, anti-sense sequences, polypeptide(s) and antibodies, useful for diagnosing *Neisseria meningitidis* infection and in protective vaccines. [ACHTMAN](#), M, et al. A61K039/095 A61K039/39 A61K039/395 A61K039/40 A61K048/00 A61P031/04 C07H021/04 C07K014/22 C07K016/12 C07K016/22 C07K016/42 C12N001/21 C12N009/00 C12N015/09 C12N015/10 C12N015/31 C12N015/74 C12P021/02 C12Q001/68 G01N033/53 G01N033/569 G01N033/68 C12N015/31 C12R001:36.

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Terms	Documents
L4 and lactamica	3

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First Hit

L5: Entry 1 of 3

File: PGPB

Nov 7, 2002

PGPUB-DOCUMENT-NUMBER: 20020164603
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020164603 A1

TITLE: DNAs and proteins or peptides specific to bacteria of the species Neisseria meningitidis, processes for obtaining them and their biological uses

PUBLICATION-DATE: November 7, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
<u>Nassif</u> , Xavier	Paris		FR	
<u>Tinsley</u> , Colin	Paris		FR	
<u>Achtman</u> , Mark	Berlin		DE	
Ruelle, Jean-Louis	Limal		BE	
<u>Vinals</u> , Carla	Liege		BE	
<u>Merker</u> , Petra	Berlin		DE	

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	COUNTRY	TYPE	CODE
INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE (I.N.S.E.R.M.)					03

APPL-NO: 09/ 928457 [PALM]
DATE FILED: August 14, 2001

RELATED-US-APPL-DATA:

Application 09/928457 is a continuation-of US application 09/214759, filed April 22, 1999, ABANDONED
Application 09/214759 is a a-371-of-international WO application PC/T/FR97/01295, filed July 11, 1997, UNKNOWN

FOREIGN-APPL-PRIORITY-DATA:

COUNTRY	APPL-NO	DOC-ID	APPL-DATE
FR	96 08768	1996FR-96 08768	July 12, 1996

INT-CL: [07] C12 Q 1/68, C07 H 21/04, C12 N 9/00, C12 N 15/74, C12 P 21/02, C12 N 1/21

US-CL-PUBLISHED: 435/6; 435/252.3, 435/183, 435/320.1, 536/23.7, 435/69.3
US-CL-CURRENT: 435/6; 435/183, 435/252.3, 435/320.1, 435/69.3, 536/23.7

REPRESENTATIVE-FIGURES: NONE

ABSTRACT:

The DNA of the invention are characterised in that they concern the whole or part of of genes, with their reading frame, to be found in *Neisseria meningitidis*, but not in *Neisseria gonorrhoeae*, or in *Neisseria lactamica* except the genes involved in the the biosynthesis of the polysaccharide capsule, frp A, frp C, opc, por A, rotamase the sequence IC1106, IgA protease, pilline, pilC, transferrin binding proteins and opacity proteins. The invention also concerns the polypeptides corresponding to these DNA and the antibodies directed against these polypeptides. It is applicable in the prevention and the detection of meningococcus induced infections and meningitis.

First Hit Fwd Refs

L2: Entry 1 of 5

File: USPT

Mar 16, 2004

US-PAT-NO: 6706269

DOCUMENT-IDENTIFIER: US 6706269 B1

TITLE: Moraxella catarrhalis PILQ proteins

DATE-ISSUED: March 16, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ruelle; Jean-Louis	Limal			BE
Vinals Y De Bassols; Carlota	Brussels			BE

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE	CODE
SmithKline Beecham Biologicals s.a.	Rixensart			BE		03

APPL-NO: 09/ 701896 [PALM]

DATE FILED: May 12, 2000

FOREIGN-APPL-PRIORITY-DATA:

COUNTRY	APPL-NO	APPL-DATE
GB	9812163	June 5, 1998

PCT-DATA:

APPL-NO	DATE-FILED	PUB-NO	PUB-DATE	371-DATE	102 (E) -DATE
PCT/EP99/03823	May 31, 1999	WO99/64448	Dec 16, 1999		

INT-CL: [07] A61 K 39/02, A61 K 39/00, A61 K 38/00, C07 K 1/00

US-CL-ISSUED: 424/190.1, 424/192.1, 424/184.1, 424/234.1, 424/251.1, 514/2, 530/350, 530/300, 530/825

US-CL-CURRENT: 424/190.1, 424/184.1, 424/192.1, 424/234.1, 424/251.1, 514/2, 530/300, 530/350, 530/825

FIELD-OF-SEARCH: 530/350, 530/825, 530/300, 514/2, 424/184.1, 424/234.1, 424/190.1, 424/192.1, 424/251.1

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

Search Selected

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PAT-NO

ISSUE-DATE

PATENTEE-NAME

US-CL

<input type="checkbox"/> <u>6048711</u>	April 2000	Hinuma et al.	435/69.1
<input type="checkbox"/> <u>6461618</u>	October 2002	Chen et al.	424/251.1
<input type="checkbox"/> <u>6600013</u>	July 2003	Ruelle	530/300

FOREIGN PATENT DOCUMENTS

FOREIGN-PAT-NO	PUBN-DATE	COUNTRY	US-CL
WO 86/02557	May 1986	WO	

OTHER PUBLICATIONS

Burgess et al. J. Cell Biol. 111: 2129-2138, 1990.*
Bowie et al. Science 247: 1306-1310, 1990.*
Lazar et al. Mol. Cell. Biol. 8: 1247-1252, 1988.*
Ellis RW. in: Vaccines. (Ed) Plotkin et al. W.B. Saunders Company, Philadelphia, 568-575, 1988.*
Sambrook et al. Molecular Cloning--A Laboratory Manual. Second Edition. Cold Spring Harbor Laboratory Press, pp. 7.2-7.44, 1989.*
Martin. P. R. et al.: "Characterization of pilQ, A New Gene Required for The Biogenesis of Type 4 Fimbriae in Pseudomonas aeruginosa, Molecular Microbiology, Aug. 1993, pp. 857-868, vol 9, No. 4.
International Search Report for PCT/EP99/03823, Feb. 3, 2000.

ART-UNIT: 1645

PRIMARY-EXAMINER: Devi; S.

ATTY-AGENT-FIRM: Sutton; Jeffrey A. Meade; Eric A.

ABSTRACT:

The invention provides BASB031 polypeptides and polynucleotides encoding BASB031 polypeptides and methods for producing such polypeptides by recombinant techniques. Also provided are diagnostic, prophylactic and therapeutic uses.

16 Claims, 23 Drawing figures

First Hit Fwd Refs

L2: Entry 4 of 5

File: USPT

Sep 19, 2000

US-PAT-NO: 6121037

DOCUMENT-IDENTIFIER: US 6121037 A

TITLE: Bacterial hemoglobin receptor genes

DATE-ISSUED: September 19, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Stojiljkovic; Igor	Portland	OR	97201	
So; Magdalene	Portland	OR	97221	
Hwa; Vivian	Portland	OR	97219	
Heffron; Fred	West Linn	OR	97068	
Nassif; Xavier	Paris			FR

APPL-NO: 08/ 537361 [PALM]

DATE FILED: October 2, 1995

PARENT-CASE:

This application is a continuation-in-part of U.S. patent application Ser. No. 08/326,670, filed Oct. 18, 1994, now U.S. Pat. No. 5,698,438.

INT-CL: [07] C12 N 1/21, C12 N 15/74, C12 N 15/31

US-CL-ISSUED: 435/252.3; 435/320.1, 536/23.7, 536/23.42

US-CL-CURRENT: 435/252.3; 435/320.1, 536/23.7, 536/24.32

FIELD-OF-SEARCH: 536/23.1, 536/23.7, 536/24.32, 435/320.1, 435/252.5, 935/11

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

	PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<input type="checkbox"/>	<u>4683195</u>	July 1987	Mullis et al.	435/6
<input type="checkbox"/>	<u>5223409</u>	June 1993	Ladner et al.	435/69.7
<input type="checkbox"/>	<u>B14683202</u>	November 1990	Mullis et al.	435/91

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Stojiljkovic et al. *Mol. Microbiol.* 15 (1995) 531-541.

ART-UNIT: 165

PRIMARY-EXAMINER: Hutzell; Paula K.

ASSISTANT-EXAMINER: Hayes; Robert C.

ABSTRACT:

The present invention relates to novel bacterial hemoglobin receptor

proteins and genes that encode such proteins. The invention is directed toward the isolation, characterization, diagnostic and therapeutic use of bacterial hemoglobin receptor proteins, nucleic acid encoding such proteins, recombinant expression constructs comprising such nucleic acids and cells transformed therewith, and antibodies and epitopes of such hemoglobin receptor proteins. The invention relates particularly to hemoglobin receptor proteins and genes encoding such proteins from Neisseria species, especially *N. meningitidis* and serotypes thereof, and *N. gonorrhoeae*. Methods for the diagnostic and therapeutic use of the proteins, epitopes, antibodies and nucleic acids of the invention are also provided, including the use of the proteins, epitopes, antibodies and nucleic acids of the invention for the production of vaccines effective in providing immunization of a human against infection by pathogenic bacteria of Neisseria species.

4 Claims, 47 Drawing figures

First Hit

Jan 22, 1998

PUBN-DATE: January 22, 1998

NAME	COUNTRY
NASSIF, XAVIER	FR
TINSLEY, COLIN	FR
ACHTMAN, MARK	DE
RUELLE, JEAN-LOUIS	BE
VINALS, CARLA	BE
MERKER, PETRA	DE

NAME	COUNTRY
INST NAT SANTE RECH MED	FR
MAX PLANCK GESELLSCHAFT	DE
SMITHKLINE BEECHAM	GB
NASSIF XAVIER	FR
TINSLEY COLIN	FR
ACHTMAN MARK	DE
RUELLE JEAN LOUIS	BE
VINALS CARLA	BE
MERKER PETRA	DE

APPL-DATE: July 11, 1997

PRIORITY-DATA: FR09608768A (July 12, 1996)

EUR-CL (EPC): C07K014/22

CHG DATE=19980401 STATUS=O>The DNA of the invention are characterised in that they concern the whole or part of genes, with their reading frame, to be found in *Neisseria meningitidis*, but not in *Neisseria gonorrhoeae*, or in *Neisseria lactamica* except the genes involved in the biosynthesis of the polysaccharide capsule, *frpA*, *frpC*, *opc*, *porA*, rotamase the sequence IC1106, IgA protease, pilline, *pilC*, transferrin binding proteins and opacity proteins. The invention also concerns the polypeptides corresponding to these DNA and the antibodies directed against these polypeptides. It is applicable in the prevention and the detection of meningococcus

induced infections and meningitis.